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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: J. SINI

Attorney Docket No: 19111.0059

Application No.: 09/988,155

Group Art Unit: 2163

Filed: November 19, 2001

Examiner: H. Thai

For: AUTOMATED ENTRY OF INFORMATION
INTO FORMS OF MOBILE
APPLICATIONS

APPEAL BRIEF

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Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In response to the Notice of Panel Decision from Pre-Appeal Brief Review mailed November 23, 2007, Applicant submits the following Appeal Brief for entry and consideration by the Board of Patent Appeals and Interferences.

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REAL PARTY IN INTEREST

The real party in interest in the present application is Oracle International Corporation,
the assignee of the present application.

RELATED APPEALS AND INTERFERENCES

None.

STATUS OF THE CLAIMS

Claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 are currently pending in the present application, and stand rejected by the Examiner. Claims 4, 6-9, 13, 15-18, 22, and 24-27 have been cancelled. As such, the Examiner's rejection of claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 are currently being appealed.

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STATUS OF AMENDMENTS

In response to the Final Office Action mailed April 18, 2007, Applicant submitted a Pre-Appeal Brief Request for Review. The participants of the Pre-Appeal Brief conference decided that Applicant is required to submit an Appeal Brief in accordance with 37 CFR 41.37. Accordingly, none of the claims have been amended after the mailing date of the Final Office Action mailed April 18, 2007.

SUMMARY OF THE CLAIMED SUBJECT MATTER

According to one aspect, the present invention is related to a method for automatically entering information into form fields. The method includes the step of invoking an application program in response to an indication from a user of a mobile device to do so. Content transmitted from the application program to the mobile device is then scanned to find a form having at least one field into which information is to be entered. Then, information is retrieved and entered into the at least one field and the form, including the entered information, is transmitted to the mobile device for display to the user when at least one mapping for the form exists.

When no mappings for the form exist, the form is transmitted to the mobile device, and at least one selection of information to be entered into the at least one field of the form into which information is to be entered is received from the user of the mobile device. Thereafter, a mapping is created for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the user of the mobile device. The form, including the at least one selection of information to the application program, is then transmitted.

According to another aspect, the present invention comprises a system for automatically entering information into form fields. The system includes a processor operable to execute computer program instructions, and a memory operable to store computer program instructions executable by the processor. The processor invokes an application program in response to an indication from a user of a mobile device to do so. Then, content transmitted from the application program to the mobile device is scanned to find a form having at least one field into which information is to be entered. In addition, information is retrieved and entered into the at least one field and the form, including the entered information to the mobile device for display to the user, is transmitted when at least one mapping for the form exists.

When no mapping for the form exists, the form is transmitted to the mobile device. At least one selection of information to be entered into the at least one field of the form into which information is to be entered is received from the user. Then, a mapping is created for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the user of the mobile device. Finally,

the form, including the at least one selection of information, is transmitted to the application program.

Another aspect of the present invention relates to a computer program product for automatically entering information into form fields. The computer program product includes a computer readable medium and computer program instructions, recorded on the computer readable medium, executable by a processor, for performing several steps. The steps include invoking an application program in response to an indication from a user of a mobile device to do so. Content that is transmitted from the application program to the mobile device is then scanned to find a form having at least one field into which information is to be entered. Information is then retrieved and entered into the at least one field, and then the form, including the entered information to the mobile device, is transmitted for display to the user. This occurs when at least one mapping for the form exists.

When no mappings for the form exist, the form is transmitted to the mobile device. The user of the mobile device provides at least one selection of information to be entered into the at least one field of the form into which information is to be entered. Thereafter, a mapping for the form is created that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the user of the mobile device. Finally, the form, including the at least one selection of information, is transmitted to the application program.

GROUND OF REJECTION TO BE REVIEWED ON APPEAL

Claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 stand rejected various reasons under 35 U.S.C. §§ 112 and 103. With regard to the § 103 rejections, the Examiner based the rejections on U.S. Patent Publication No. 2002/0107755 to Steed *et al.* ("Steed") in view of U.S. Patent Publication No. 2002/0010715 to Chinn *et al.* ("Chinn"). Specifically, the Examiner rejected:

- Claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 under 35 U.S.C. § 112(2) as being indefinite; and
- Claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 under 35 U.S.C. § 103(a) as being obvious over Steed and Chinn.

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ARGUMENT

As set forth above, the Examiner rejected claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 under 35 U.S.C. §§ 112 and 103. For at least the reasons set forth below, Applicant submits that the Examiner's rejections are improper. Accordingly, issuance of a Notice of Allowance by the Board is respectfully requested.

THE REJECTIONS UNDER 35 U.S.C. § 112

In the Office Action, the Examiner rejected claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 under 35 U.S.C. § 112, second paragraph, as being indefinite. Specifically, the Examiner stated that claims 1, 10, and 19 recite "the entered information," "stored information," and "received at least one selection of information." Further, the Examiner stated that it is unclear what includes the "indication from a user," and what, if anything, happens as a result of the user providing "an indication." Finally, the Examiner believes that it is unclear exactly what the mobile device is doing as reflected in the claim limitation "a mobile device to do so." Each of these rejections is addressed in turn.

With regard to the recitation of "the entered information," a skilled artisan will recognize that it refers to the recitation of "entering information" on the line preceding it. Proceeding, "stored information" provides its own antecedent basis. Moreover, "received at least one selection of information" refers to the earlier recitation of "receiving from the user of the mobile device at least one selection of information."

In addition, the recitation of "an indication from a user" has sufficient antecedent basis, and is described in the written description at page 17, lines 10-20, and in FIG. 4. Moreover, the claims specifically state that an application program is invoked in response to the indication from a user. Thus, there is no basis for the Examiner's contention that it is unclear what, if anything, happens as a result of the user providing the indication. Finally, the last rejection of "a mobile device to do so" strains credibility. Any person, including a skilled artisan, will clearly recognize that the first element, *i.e.*, "invoking an application program in response to an indication from a user of a mobile device to do so," means that an application program will be invoked in response to a user providing an indication that they want the program invoked. Understanding this recitation does not involve great analytical skills or technical abilities. Instead, the meaning of the recitation is readily comprehensible.

For at least the reasons set forth above, Applicant submits that rejections of claims 1, 10, and 19 under 35 U.S.C. § 112 are improper. As such, reconsideration and withdrawal of the rejection is respectfully requested.

THE REJECTIONS UNDER 35 U.S.C. § 103

As set forth above, the Examiner also rejected claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 under 35 U.S.C. § 103(a) as being obvious over Steed and Chinn. Applicant submits that the Examiner's § 103 rejections are improper for the following reasons.

Steed discloses a server based electronic wallet system. The system facilitates purchases from a wireless device by detecting, at a proxy, that a wireless device is attempting to access a form from a merchant server. *See* Para. 0008. The form, which requires information to be entered, is automatically filled in at the proxy. *Id.* The filled-in form, together with a hyper-link to a file stored on a wallet server, is then delivered to the wireless device. *Id.* Upon receipt at the wallet server of an instruction from the wireless device, information is delivered to a merchant server, enabling a transaction to be completed. *Id.*

One embodiment of the present invention comprises a method for automatically entering information into form fields. The method includes invoking an application program in response to an indication from a user of a mobile device to do so. *See, e.g.,* Claim 1. Content transmitted from the application program to the mobile device is scanned to find a form having at least one field into which information is to be entered. *Id.* When at least one mapping for a form exists, the present invention retrieves and enters information into the at least one field and transmits the form, including the entered information, to the mobile device for display to the user. *Id.*

In contrast to Steed and Chinn, when no mappings for the form exist, the present invention transmits the form to the mobile device. *Id.* Then, at least one selection of information to be entered into the at least one field of the form is received from the user of the mobile device. *Id.* A mapping that specifies how to fill in fields in the form is then created. *Id.* The created mapping is based on the at least one selection of information that is received from the user of the mobile device. *Id.* The form including the at least one selection of information is then transmitted to the application program. *Id.*

In previous Office Actions, *e.g.,* page 4 of the Office Action mailed July 21, 2006, the Examiner has acknowledged that Steed does not disclose creating a mapping for a form if no

mappings for a form exist. The Examiner's admission is, in fact, accurate in light of the explicit disclosure of Steed. In particular, Steed stores a list of merchant pay page URLs that can be updated from time to time. *See* Steed at Para. 0021. A wallet proxy (14) profiles these pages by storing, for each merchant page, a mapping of field definitions to specific values based on user data. *Id.* at Para. 0023. However, when a URL is not recognized as a merchant pay page that is served by the wallet proxy software (14), the wallet proxy software (14) "plays no further part." *Id.* at Para. 0022 (emphasis added). In other words, when no mappings for a URL's form exist, Steed merely enables a connection to the Internet, and plays no further role with regard to mapping. *Id.* Again, this explicit disclosure by Steed conclusively demonstrates that Steed is completely silent at least with regard to the creation of a mapping based on the at least one selection of information by a user.

In an attempt to cure the deficiencies of Steed, the Examiner cited Chinn. Chinn discloses a system and method for browsing using a limited display device. Chinn states that its disclosure is useful because, although programming languages such as HTML and XML are suitable for display on a desktop computer, they are generally not suited for mobile devices. *See* Chinn at Para. 0003. Accordingly, Chinn discloses a processor that converts a conventional markup language document into a navigation tree that provides a semantic, hierarchical structure that includes some or all of the content included in the web pages presented by the conventional markup language documents. *Id.* at Para. 0006. For each conventional markup language document, Chinn constructs a document tree that has a number of nodes. *Id.* at Para. 0009.

In order to construct the document tree, Chinn uses metadata, such as declarative statements and procedural statements. *Id.* at Para. 0008. If procedural statements are present, Chinn applies them to construct a navigational tree. *Id.* at Para. 0009. If there are no procedural statements, Chinn applies a mapping procedure to convert the document tree into a navigation tree. *Id.* A user can navigate through the web pages and access the content stored on the site by traversing the nodes in the navigation tree. *Id.* at Para. 0010. Chinn further discloses that a form in a document tree can be mapped to create a form node in a navigation tree. *Id.* at Para. 0113. Thus, the "mapping" disclosed by Chinn relates to creating a navigation tree from a document tree, which is unrelated to the subject matter claimed by the present invention.

Again, Chinn is related to creating navigation trees. Chinn discloses that a document tree can be mapped to create a form node in a navigation tree. There is no teaching or suggestion that

Chinn creates a mapping for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received selection of information from the user of the mobile device. In fact, Chinn does not even tangentially relate to entering information into a form. Even more remote is any teaching or suggestion of creating a mapping in the manner recited by claims 1, 10, and 19 of the present invention. Thus, a skilled artisan looking at Steed and Chinn would not have been motivated to arrive at the present invention because neither reference, either alone or in combination, discloses or suggests the features recited by the claims.

As such, for the reasons set forth above, Applicant submits that the Examiner's § 103 rejections of claims 1-3, 5, 10-12, 14, 19-21, 23, and 28-30 are overcome. Accordingly, reconsideration and issuance of a Notice of Allowance is respectfully requested.

CLAIMS APPENDIX

1. (Previously Presented) A method for automatically entering information into form fields comprising the steps of:

invoking an application program in response to an indication from a user of a mobile device to do so;

scanning content transmitted from the application program to the mobile device to find a form having at least one field into which information is to be entered;

retrieving and entering information into the at least one field and transmitting the form including the entered information to the mobile device for display to the user, when at least one mapping for the form exists;

when no mappings for the form exist, transmitting the form to the mobile device, receiving from the user of the mobile device at least one selection of information to be entered into the at least one field of the form into which information is to be entered, creating a mapping for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the user of the mobile device, and transmitting the form including the at least one selection of information to the application program.

2. (Original) The method of claim 1, further comprising the steps of:

receiving at least one edit made by the user of the mobile device of the entered information; and

transmitting the form including the edited entered information to the application program.

3. (Original) The method of claim 2, wherein the mapping for the form comprises information mapping at least one field of the form into which information is to be entered to stored information.

4. (Canceled)

5. (Previously Presented) The method of claim 3, further comprising the step of:
updating information for mapping at least one field of the form into which information is to be entered to stored information based on the received selection of information made by the user, if the entered information was edited by the user.

6-9. (Canceled)

10. (Previously Presented) A system for automatically entering information into form fields comprising:

a processor operable to execute computer program instructions; and
a memory operable to store computer program instructions executable by the processor,
for performing the steps of:

invoking an application program in response to an indication from a user of a mobile device to do so;

scanning content transmitted from the application program to the mobile device to find a form having at least one field into which information is to be entered;

retrieving and entering information into the at least one field and transmitting the form including the entered information to the mobile device for display to the user, when at least one mapping for the form exists;

when no mappings for the form exist, transmitting the form to the mobile device, receiving from the user of the mobile device at least one selection of information to be entered into the at least one field of the form into which information is to be entered, creating a mapping for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the user of the mobile device, and transmitting the form including the at least one selection of information to the application program.

11. (Original) The system of claim 10, further comprising the steps of:

receiving at least one edit made by the user of the mobile device of the entered information; and

transmitting the form including the edited entered information to the application program.

12. (Original) The system of claim 11, wherein the mapping for the form comprises information mapping at least one field of the form into which information is to be entered to stored information.

13. (Canceled)

14. (Previously Presented) The system of claim 12, further comprising the step of:
updating information for mapping at least one field of the form into which information is to be entered to stored information based on the received selection of information made by the user, if the entered information was edited by the user.

15-18. (Canceled)

19. (Previously Presented) A computer program product for automatically entering information into form fields comprising:

a computer readable medium;

computer program instructions, recorded on the computer readable medium, executable by a processor, for performing the steps of:

invoking an application program in response to an indication from a user of a mobile device to do so;

scanning content transmitted from the application program to the mobile device to find a form having at least one field into which information is to be entered;

retrieving and entering information into the at least one field and transmitting the form including the entered information to the mobile device for display to the user, when at least one mapping for the form exists;

when no mappings for the form exist, transmitting the form to the mobile device, receiving from the user of the mobile device at least one selection of information to be entered into the at least one field of the form into which information is to be entered, creating a mapping for the form that specifies how to fill-in fields in the form into which stored information is to be entered based on the received at least one selection of information from the

user of the mobile device, and transmitting the form including the at least one selection of information to the application program.

20. (Original) The computer program product of claim 19, further comprising the steps of: receiving at least one edit made by the user of the mobile device of the entered information; and

transmitting the form including the edited entered information to the application program.

21. (Original) The computer program product of claim 20, wherein the mapping for the form comprises information mapping at least one field of the form into which information is to be entered to stored information.

22. (Canceled)

23. (Previously presented) The computer program product of claim 21, further comprising the step of:

updating information for mapping at least one field of the form into which information is to be entered to stored information based on the received selection of information made by the user, if the entered information was edited by the user.

24-27. (Canceled)

28. (Previously Presented) The method according to claim 1, wherein the information retrieved to enter into the at least one field of the form is stored in a location specifically associated with the form and the field.

29. (Previously Presented) The system according to claim 10, wherein the information retrieved to enter into the at least one field of the form is stored in a location specifically associated with the form and the field.

30. (Previously Presented) The computer program product according to claim 19, wherein the information retrieved to enter into the at least one field of the form is stored in a location specifically associated with the form and the field.

EVIDENCE APPENDIX

None.

RELATED PROCEEDINGS APPENDIX

None.

A Petition for Extension of Time is submitted herewith extending the time for response four months to and including April 18, 2008. No other fees are believed to be due at this time. Should any other fees be due, please charge them to Deposit Account No. 50-4545, Order No. 19111.0059.

Respectfully submitted,
HANIFY & KING, P.C.

Dated: April 17, 2008

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